



10:11 West Jefferson Boulevard, Culvet City, California 90232 IEL 310-837-6500 FAX 310-837-9563 www.moldex.com

August 11, 2006

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510(k) Summary

Submitter:

Moldex-Metric, Inc 10111 W. Jefferson Blvd. Culver City, CA 90232-3509

OCT 1 1 2006

Contact:

William Wawrzyniak Director Quality Assurance

Telephone: 310-837-6500 Ext. 705

Fax: 310-837-0468

E-mail: williamw@moldex.com

Trade Name:

Moldex Health Care N95 Particulate Respirators and Surgical Masks, various models

Common Name:

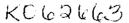
Health Care N95 Particulate Respirators and Surgical Masks

Classification:

Name – Surgical Apparel, as described in 21 CFR 878.4040. Device Class – Class II Product Code – MSH CFR Section – 21 CFR 878.4040

Substantial Equivalency:

Moldex Health Care N95 Particulate Respirators and Surgical Masks are found to be substantially equivalent to Inovel Health Care N95 Particulate Respirators and Surgical Masks models 1511, 1512, 1513, 1517 [(510(k) K061859] and 3001N95-S, 3002N95-M, 3003N95-L, 3004N95-LP [(510(k) K051182]. These products have also been tested and approved by NIOSH as N95 Respirators.



MOLDEX-METRIC, INC.

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Description:

ideas that wear well

The Moldex type N95 Healthcare Particulate Respirators and Surgical Masks are constructed from an extruded plastic mesh used in the outer cover and a nonwoven spunbond used in the inner and outer cover. The polypropylene melt blown filter media is layered between the inner and outer cover. The head straps are made of a non-latex rubber stapled to the mask. The inside nosepiece is a closed cell foam.

The Moldex type N95 Healthcare Particulate Respirators and Surgical Masks are approved by NIOSH in accordance with 42 CFR Part 84. The certification number is TC-84A-4339.

The type N95 must meet the prescribed test criteria which specifies the use of 0.055 to 0.095 micron diameter challenge and requiring a 95% efficiency or better. The masks are resistant to synthetic blood as per ASTM F 1862 Standard Test method for Resistance of Medical Face Mask to Penetration by Synthetic Blood. Breathing resistance was tested by NIOSH in accordance to 42 CFR Part 84. The devices have a Bacterial Filtration Efficiency greater than 99.9%. Testing was conducted by Nelson Laboratories using the Modified Green and Vesley Method for evaluation of bacterial filtration efficiency of surgical masks.

Intended Use:

The various models of Moldex Type N95 Healthcare Particulate Respirators and Surgical Masks meet CDC Guidelines for TB Exposure Control within healthcare facilities. These devices are also intended to be worn by healthcare personnel during surgical procedures to protect both the patient and healthcare personnel from the transfer of microorganisms, body fluids and particulate material.

Limitations:

These products do not eliminate the wearer from any risk of contracting any type of disease or infection. The mask should be changed immediately if contaminated with blood or body fluids.

Comparison of Predicate Devices:

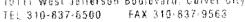
The outside cover of the previously cleared devices incorporate an extruded plastic mesh or a nonwoven polypropylene material with a layer of an extruded plastic mesh and the Moldex models 2211GN95-S, 2212GN95-M/L and 2217GN95-LP an extruded plastic mesh on the outside cover. The head strap color of the cleared device is the same as the Inovel device models for which clearance is being requested.

The Inovel type N95 Healthcare Particulate Respirators and Surgical Masks incorporate a highly efficient filter media and is 95% efficiency or better against aerosols that have a count median diameter of 0.055 - 0.095 microns which was scientifically established as the most penetrating particle size. The legally marketed devices previously cleared 510(k) are manufactured from similar materials.



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510(k) Summary (continued)

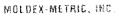
Device and Predicate Devices Descriptions/ Comparisons

Description	Moldex Health Care N95 Particulate Respirators and Surgical Masks, models 2211GN95-S. 2212GN95-M/L, 2217GN95-LP	Inovel Health Care N95 Particulate Respirators and Surgical Masks, models 1511, 1512, 1513, 1517	Inovel Health Care N95 Particulate Respirators and Surgical Masks, models 3001N95-S, 3002N95-M, 3003N95-L, 3004N95-LP	
Materials				
Outer Cover Fabrics	Ethylene-Vinyl Acetate Copolymer, extruded	Ethylene-Vinyl Acetate Copolymer, extruded	Polypropylene Spunbond and Ethylene-Vinyl Acetate Copolymer, extruded	
Nosepiece	Polyethylene foam	Polyethylene foam	Polyethylene foam	
Headband	Various colors elastic, latex free	Various colors elastic, latex free	Various colors elastic, latex free	
Specification & Dimensions	Overall width: 5 – 5 5/8 inches Overall height: 4 3/4 – 5 1/2 inches	Overall width: 5 – 5 5/8 inches Overall height: 4 3/4 – 5 1/2 inches	Overall width: 5 – 5 5/8 inches Overall height: 4 3/4 – 5 1/2 inches	
Mask Style	Molded Cup	Molded Cup	Molded Cup	
Design Features	Dual synthetic rubber head straps	Dual synthetic rubber head straps	Dual synthetic rubber head straps	
NIOSH Certification#	TC-84A-4339	TC-84A-0013	TC-84A-4102	

Risks to Health

Performance Characteristics	Test Method	Acceptance criteria/ Results	Predicate Device Results	Predicate Device Results
		Moldex Health Care N95 Particulate Respirators and Surgical Masks various models (3)	Inovel Health Care N95 Particulate Respirators and Surgical Masks models 1511, 1512, 1513, 1517	Inovel Health Care N95 Particulate Respirators and Surgical Masks models 3001N95-S, 3002N95-M, 3003N95-L, 3004N95-LP
Fluid Resistance Performance	ASTM 1862 - 00a	32 of 32 pass	Models 1511, 1513 and 1517 32 of 32 pass Model 1512 31 of 32 pass	32 of 32 pass
Flammability Class	16 CFR 1610	Flame spread must be within upper and lower limits/ No flame spread on 10 of 10 samples, meets Class I	Flame spread must be within upper and lower limits/ No flame spread on 10 of 10 samples, meets Class I	Flame spread must be within upper and lower limits/ No flame spread on 10 of 10 samples, meets Class i
Filter Efficiency (%)	NIOSH, 42 CFR Part 84	95% Efficient/ average 98,81% efficient of 20 samples	≥ 95% Efficient/ average 98.58% efficient of 17 samples	≥ 95% Efficient/ average 99.11% efficient of 20 samples
Breathing Resistance (mm H ₂ O)	NIOSH, 42 CFR Part 84	≤ 35.0 mm H ₂ O @ 85 lpm/ average 10.2 mm H ₂ O @ 85 lpm of 3 samples	≤ 35.0 mm H₂O @ 85 lpm/ average 10.3 mm H₂O @ 85 lpm of 3 samples	≤ 35.0 mm H ₂ O @ 85 ipm/ average 11.3 mm H ₂ O @ 85 ipm of 3 samples
Biocompatibility *	ISO 10993 - 1	Cytotoxicity Same as predicate device	Cytotoxicity, score of 2 or less/ Score of 0	Cytotoxicity, score of 2 or less/ Score of 0
		Sensitization Same as predicate device	Sensitization, Grade 1 (no different than control)/ Grade 1	Sensitization, Grade 1 (no different than control)/ Grade 1
		Primary Skin Irritation Same as predicate device	Primary Skin Irritation, Negligible/Negligible	Primary Skin Irritation, Negligible/Negligible
Bacterial Filtration Efficiency	Modified Greene and Vesley Method. J Bacteriol 83:663- 667.	Test results show a bacterial filtration efficiency greater than 99.9%	Test results show a bacterial filtration efficiency greater than \$9.9%	Test results show a bacterial filtration efficiency greater than 99.9%

^{*} Tests were conducted on Predicate Devices which are made from the same material as models identified in this 510(k) submission.



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510(k) Summary (Continued)

Performance Tests:

These products were tested and certified by NIOSH as an approved N95 Respirator. It meets all the requirements prescribed in 42 CFR Part 84 and is assigned TC-84A-4339

Tests Performed

Laboratory

1. Fluid Resistance - Resistance of Liquid Moldex-Metric Inc. (Synthetic Blood Penetration Resistance) ASTM F 1862.

2. Filtration Efficiency (Particulate NIOSH and Bacterial) 42 CFR Part 84

3. Differential Pressure (Delta P) - Breathing NIOSH Resistance 42 CFR Part 84

4. Flammability 16 CFR 1610 (Class 1)

Nelson Laboratories

5. Biocompatibility* (tested on predicate devices)

Nelson Laboratories

6.

Cytotoxicity (ISO 10993-5)

Pacific Laboratories, Inc. Northview (Coordinated by Nelson Laboratories)

Sensitization (ISO 10993-10)

Northview Pacific Laboratories. Inc.

Irritation (ISO 10993-10)

(Coordinated by Nelson Laboratories)

7. Bacterial Filtration Efficiency Modified Greene and Vesley Method. J Bacteriol 83:663-667. Nelson Laboratories

* Tests were conducted on Predicate Devices which are made from the same material as models identified in this 510(k) submission.

Safety/ Effectiveness:

The devices have a filtration equivalent to the previously cleared Inovel LLC N95 Particulate Respirators and Surgical masks models 1511, 1512, 1513, 1517 510(k) number K061859 and Models 3001N95-S, 3002N95-M, 3003N95-L and 3004N95-LP 510(k) number K051182. They are NIOSH approved and meet the CDC guidelines for TB.

Conclusion:

The basic construction and material used in the cleared devices are the same as in the new devices. The cleared devices and the new devices are also approved by NIOSH, and meets all other required tests. The Moldex type N95 Healthcare Particulate Respirators and Surgical Masks are substantially equivalent to those listed on page 2-4.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Moldex-Metric, Incorporated C/O Mr. Neil E. Devine, Jr. Responsible Third Party Official Intertek Testing Services 2307 East Aurora Road, Unit B7 Twinsburg, Ohio 44087

OCT 1 1 2006

Re: K062663

Trade/Device Name: Moldex Health Care N95 Particulate Respirators and Surgical Mask, Models 2211GN95-S, 2212GN95-M/L, 2217GN95-LP

Regulation Number: 21 CFR 878.4040 Regulation Name: Surgical Apparel

Regulatory Class: II Product Code: MSH

Dated: September 28, 2006 Received: September 29, 2006

Dear Mr. Devine:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Chiu Lin, Ph.D.

Director

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K O6 26 6 3
Device Name: Health Care N95 Particulate Respirators and Surgical Masks, models 2211GN95-S, 2212GN95-M/L, 2217GN95-LP
Indications for Use:
The various models of Moldex Type N95 Healthcare Particulate Respirators and Surgical Masks meet CDC Guidelines for TB Exposure Control within healthcare facilities. These devices are also intended to be worn by healthcare personne during surgical procedures to protect both the patient and healthcare personne from the transfer of microorganisms, body fluids and particulate material.
Prescription Use AND/OR Over-The-Counter Use X (Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE)
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Mughty 10/11/64 Michigan Sign-Off) Michigan of Anesthesiology, General Hospital, Intection Control, Dental Devices 6.6(%) Number: 10/2/63